



MAILED CIVIL SERVICE
STATE OF ALASKA
JAN 21 1975

REVISED ANADROMOUS STREAM CATALOG OF
SOUTHEASTERN ALASKA

Appendix B - District 2

Volume V

North End Area Survey Data

By:
Paul Novak
1975

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DEPARTMENT OF FISH AND GAME
Building, Juneau, Alaska 99801

James W. Brooks
Commissioner

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revisions will be made via errata sheets. Major revisions will be made in the form of revised reports.

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REVISED ANADROMOUS STREAM CATALOG OF
SOUTHEASTERN ALASKA

By

Paul Novak
Alaska Department of Fish and Game,
Division of Commercial Fisheries, 1975
Ketchikan, Alaska

1975

Appendix B - District 2

(Volume V)

North End Area Survey Data

1. S.E. Alaska
2. Hydrology
I. Agency

Statistical Area 102
North End - District 2



SUMMARY
STREAM EVALUATIONS

District 2

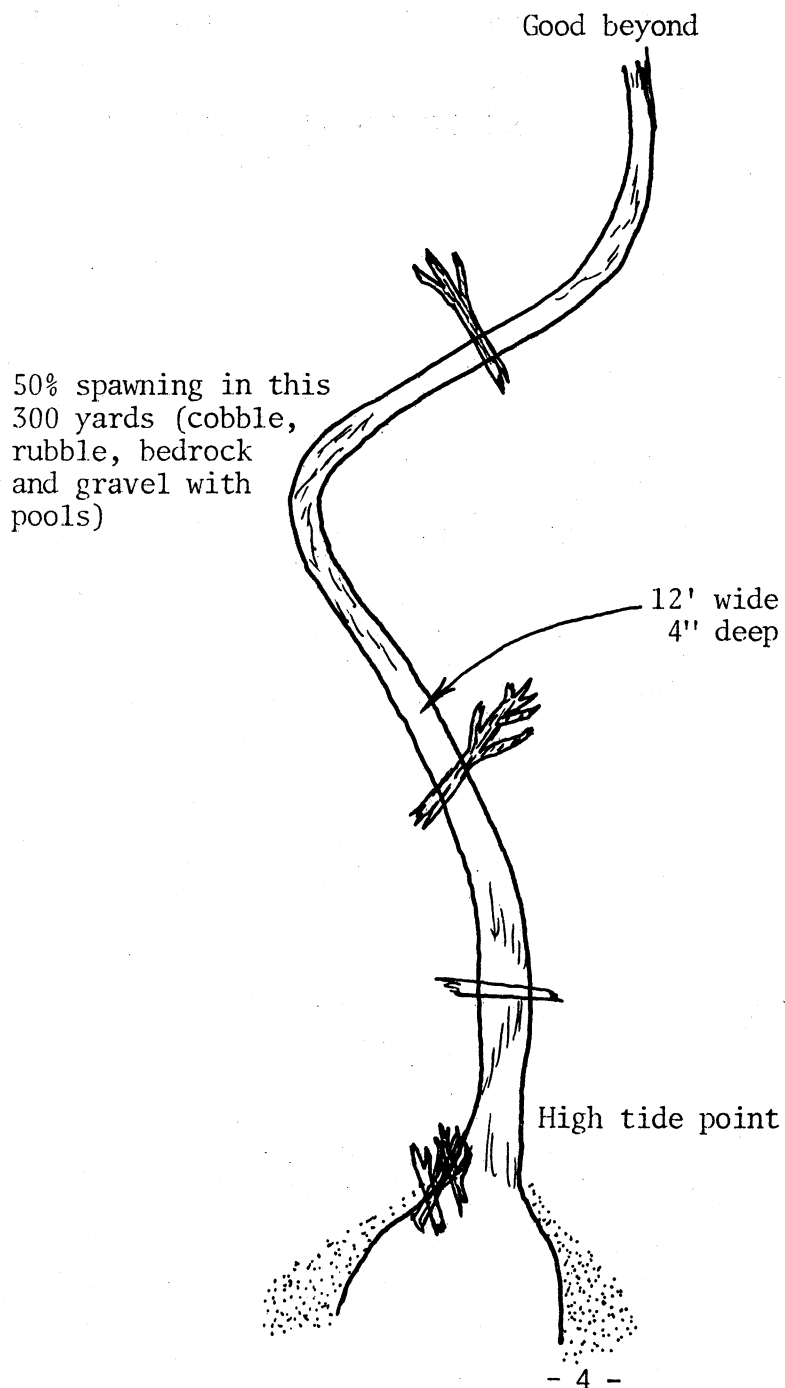
North End Area

Name & Number	Average Width	Length	Area (Ft ²)	M ²	Spawning Area (m ²)	Available Area (m ²)
102-70-07	9'	1200'	10,800	1003	50%	502
102-70-09	12'	750'	9000	836	50%	418
102-70-11	15'	975'	14,625	1359	62%	846
102-70-13	3.5'	825'	2917	271	50%	136
102-70-17	20'	900'	18,000	1672	75%	1254
102-70-28	20'	1500'	30,000	2787	75%	2090
Tolstoi Bay	15'	900'	13,500	1254	50%	627
102-70-38	15'	1350'	20,250	1881	75%	1411
Tolstoi Bay	17'	2850'	48,450	4501	63%	2882
102-70-41						
Loon Creek	9'	600'	5400	501	50%	250
102-70-51						
Setter Creek ITZ	10'	240'	2400	1059	50%	529
102-70-55	15'	600'	9000	836	50%	418
Thorne River	105'	52,800'	5,544,000	515,037	60%	309,022
102-70-58						
Control Creek	97'	10,560'	1,024,320	95,159	50%	47,579
102-70-58						
Cutthroat Creek	40'	5280'	211,200	19,620	75%	14,715
102-70-58						
North Thorne River	70'	9780'	684,607	63,600	80%	53,000
102-70-58						
Deer Creek	15'	450'	6750	627	20%	125
102-70-70	12'	450'	5400	501	15%	75
Snug Harbor ITZ	10'	360	3600	334	15%	50
102-70-74	10'	900'	9000	836	50%	488
102-70-78	10'	750'	7500	696	50%	348
Meyer's Stream	10'	450'	4500	418	5%	20
102-80-05	20'	300'	6000	557	40%	222

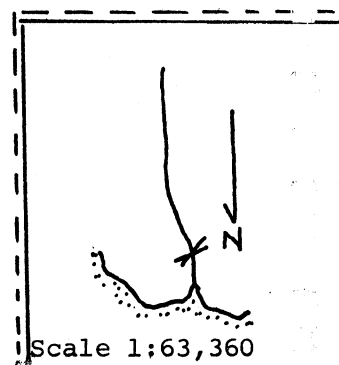
102-80-13	30'	900'	27,000	2508	30%	752
102-80-17	35'	75'	2625	243	25%	60
102-80-19	5.7'	390'	2250	209	75%	157
102-80-21	25'	360'	9000	836	10%	83
102-80-24	8'	90'	720	66	10%	6
	8'	60'	480	44	30%	13

NORTH END AREA TOTAL 438,078

102-70-07
6-20-74
Elton



- 4 -



Name _____ Catalog No. 102-70-07
 Latitude N 55° 31' 16" WR No. _____
 Longitude W 132° 13' 35" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location 4.6 miles N.W. of Streets Is. Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream.

Aerial Survey Notes Overstory - not feasible to fly.

Anchorage Good anchorage in Lyman Anchorage - see Coast Pilot.

Tide Stage When Surveyed 1/4 ebb.

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Opt. esc. 1,002 pinks in portion walked (10,800 sq. ft. w/50% ASA)
No I.T.Z. data available because of high tide but some available.)

Species Composition No data Available spawning area - 502 M²

Timing No data

Schooling areas No data

Shellfish Potential Possible - looked like some sand on bottom, but tide quite high.

Sport Fisheries No data

Land Use at Present None

History of Land Use Mining in general vicinity

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-09
6-20-74
Elton

Water high and dark after two days of rain.

Gradient gets steeper but there is
some potential above part walked.

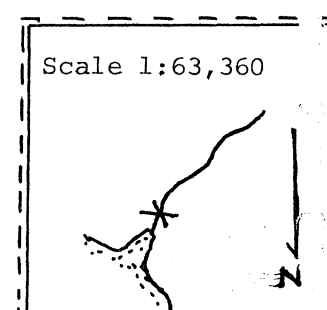
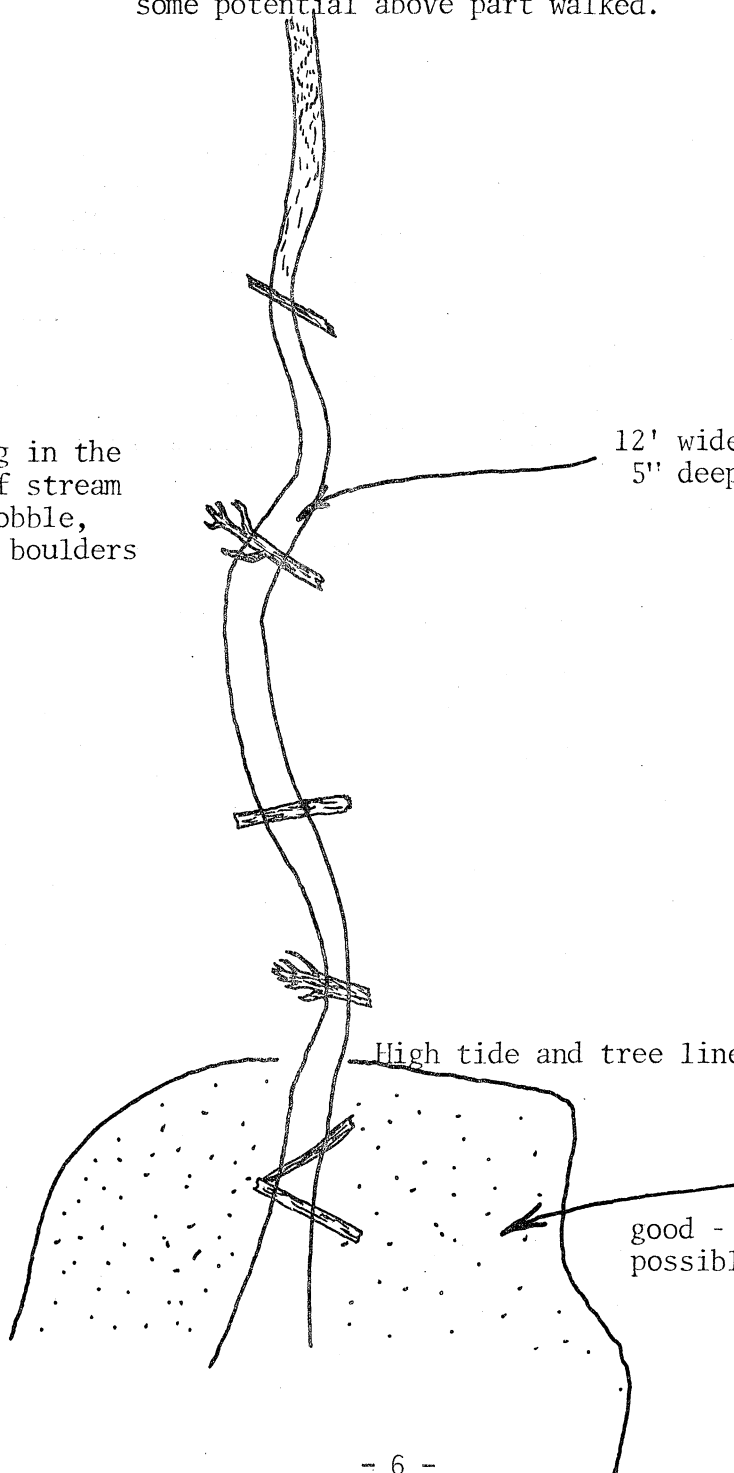
50% spawning in the
250 yards of stream
walked. (cobble,
gravel with boulders
and pools)

12' wide
5" deep

High tide and tree line

Tide high but upper
portion of I.T.Z. looked
good - no width or depth data
possible.

Scale 1:63,360



Name _____ Catalog No. 102-70-09
 Latitude N 55° 31' 22" WR No. _____
 Longitude W 132° 14' 20" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location 5 miles N.W. of Streets Is. Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Heavy overstory - not feasible.

Anchorage Lyman Anchorage is a good bight - see Coast Pilot

Tide Stage When Surveyed Beginning of ebb.

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Opt. esc. to point walked 836 pinks (9000 sq. ft. w/ 50% ASA)

(NO I.T. data because of high tide, but some available.) Available spawning area -

Species Composition No data 418 M²

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use Mines in vicinity

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-11

6-20-74

Elton

Water was high and dark
after two day of rain.

Gradient gets steeper and potential
drops rapidly.

50% spawning in
this 75 yards.
(cobble and pools)

Total width in this braided
area is 25 feet. The main
channel is on the right.

70% spawning in this
200 yards. (cobble
and pools)

15' wide
5" deep

High tide line

Black slag mine tailing 75 yards to
the right of stream mouth.

- 8 -

Scale 1:68,360

Name _____ Catalog No. 102-70-11
Latitude N 55° 32' 08" WR No. _____
Longitude W 132° 16' 53" K No. _____
Geodetic Map No. Craig C-1 Work Area Ketchikan
Location Lyman Anchorage Watershed Length _____
Drainage Area of Watershed _____
Water Supply Type Spring and runoff with a very small lake at head of one of the forks.
Trails & Survey Routes Walk in stream.
Aerial Survey Notes Heavy overstory, not feasible.
Anchorage Good in Lyman Anchorage - see Coast Pilot.
Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data
Escapement Available spawning area - 846 M²
(upper portion of I.T. looked good, but covered with tide, so no data)
Species Composition No data
Timing No data
Schooling areas No data
Shellfish Potential None - rocky
Sport Fisheries No data
Land Use at Present Two homes 200 yards up beach.
History of Land Use Mining in vicinity.
Rehabilitation Potential None
Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

PEAK ESCAPEMENT RECORD

NAME: Tolstoi Bay, Head

STREAM CATALOG NUMBER: 102-70-11

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 7, 1937				Very good escapement (G)
Oct. 1, 1940	10,000	1,000		Excellent (G)
Oct. 11, 1941	12,000			Excellent. Chum showing (G)
Sept. 28, 1943	5,000	10,000		Fair. Many dead chum (G)
Oct. 4, 1946	8,500	1,500		Good (G)
Oct. 2, 1953	40	270		Poor. Few chum at mouth (G)
Sept. 2, 1960	0	0		None at mouth (A)
Aug. 18, 1961				None observed (A)
July 30, 1963	N.O.			Good vis. (A)
Aug. 4, 1964	N.O.			Stream very low (A)

102-70-13
6-20-74
Elton

Creek continues looking good but catch this
on a good tide.

Water high after two days of rain.

50% spawning in this 250
yards (gravel and cobble)

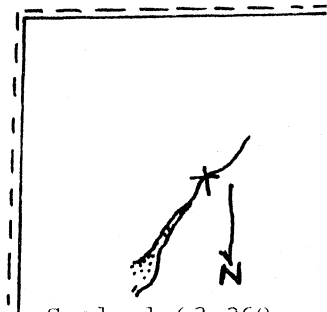
3' wide
4" deep

Brush overhangs
creek and is very
thick in places.

Undercut banks throughout.

9' wide
2" deep

50% spawning in
this 25 yards of
I.T. (gravel)



Name _____ Catalog No. 102-70-13
Latitude N 55° 31' 41" WR No. _____
Longitude W 132° 18' 03" K No. _____
Geodetic Map No. Craig C-1 Work Area Ketchikan
Location Head of Lyman Anchorage Watershed Length _____
Drainage Area of Watershed _____
Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream - brush hangs over stream and in places is very thick and difficult to walk.

Aerial Survey Notes Not feasible, very heavy overstory.

Anchorage Lyman Anchorage - see Coast Pilot.

Tide Stage When Surveyed High.

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 136 M² This includes
25 yards of I.T.Z. not covered by tide)

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use Mining in vicinity

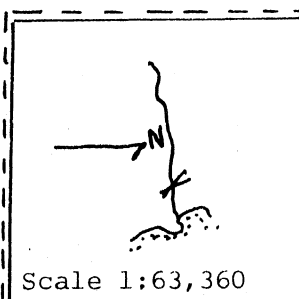
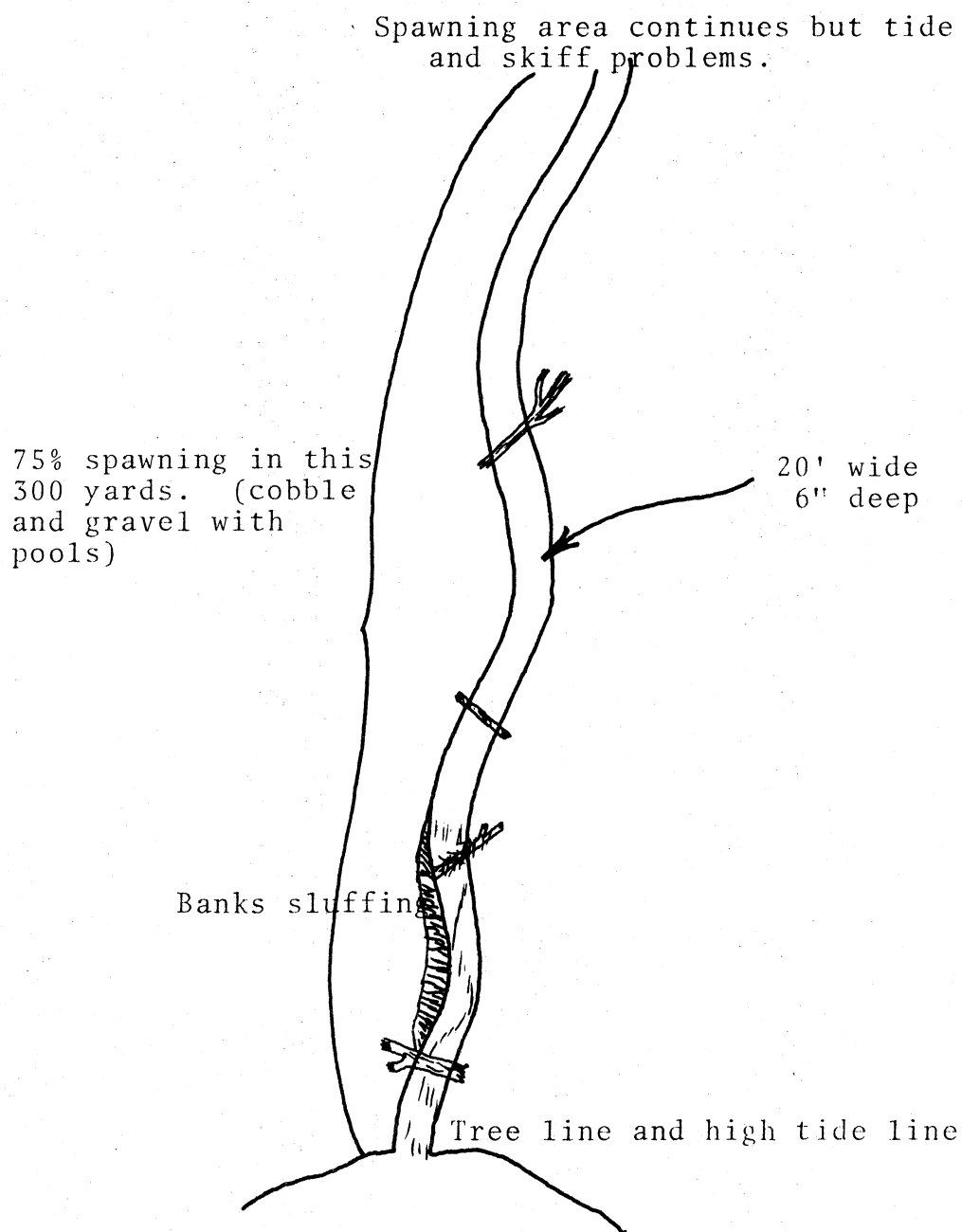
Rehabilitation Potential None

Soils Undercut banks throughout.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-17
6-20-74
Elton



Name _____ Catalog No. 102-70-17
 Latitude N 55° 32' 52" WR No. _____
 Longitude W 132° 18' 43" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location 3/10 mi. so. of Figgins Pt Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible - heavy overstory

Anchorage Lyman Anchorage - see Coast Pilot

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 1,254 M²
(does not include I.T. because of high tide)

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

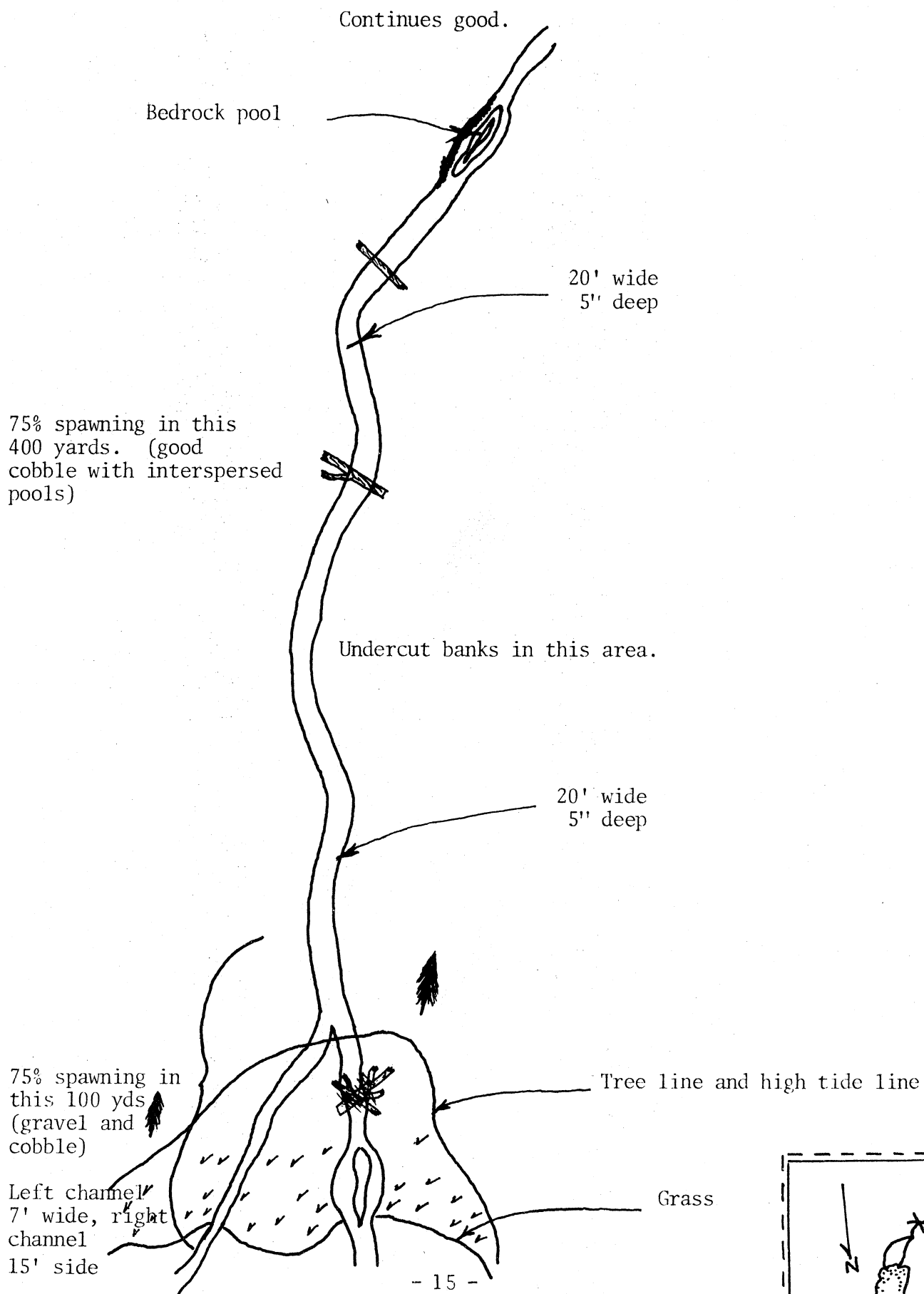
Rehabilitation Potential None

Soils Sluffing area on right side just above I.T.Z.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-28
6-20-74
Elton



Name _____ Catalog No. 102-70-28
 Latitude N 55° 37' 17" WR No. _____
 Longitude W 132° 21' 13" K No. 182
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location Head of Windfall Harbor Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Heavy overstory - not feasible.

Anchorage Windfall Harbor is a poor anchorage - Use Lyman Anchorage. See Coast Pilot.

Tide Stage When Surveyed 3/4 flood

FISHERY RESOURCES

Commercial Fisheries This stream has only one recorded survey on Sept. 22, 1951 by F.R.I.

Escapement Available spawning area - 2,090 M² - this does not cover I.T. area covered by tide or spawning area above point walked.)

Species Composition In the one survey a total of 164 chums in stream and 250 pinks off the mouth.

Timing Appears to be late

Schooling areas No data

Shellfish Potential Possible off mouth - appears to be sandy.

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable for the most part but some undercut banks.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>1</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>12</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

PEAK ESCAPEMENT RECORD

NAME: Windfall Harbor, Head

STREAM CATALOG NUMBER: 102-70-28

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 22, 1951	0	109		250 pink at mouth (G)

- 17 -

Potential drops rapidly
in this fork.

This fork
almost dry.

102-70-38
Tolstoi Bay
6-19-74
Elton & Joyner

75% spawning in
this 150 yards.
(cobble and gravel)

15' wide, 3" deep

This stream logged 5 - 10 years
ago on both sides. There is
a logging road on left (going
up) side to walk back on.

75% spawning in
this 300 yards.
(good pools, cobble
and gravel with quite
a bit of slash, but no
barriers)

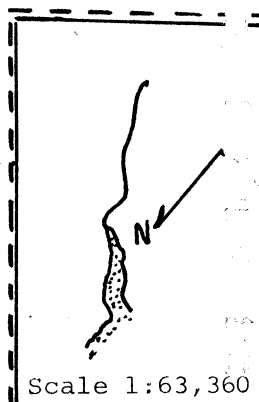
A floating log camp stretches
across the bight this stream
is in.

Coho fry seen throughout stream
(a total of 40 observed).

50% spawning
in this 300 yds.
(cobble and gravel)

15' side, 3" deep

algae covered below this point





Name _____ Catalog No. 102-70-38
 Latitude N 55° 37' 35" WR No. _____
 Longitude W 132° 25' 15" K No. 183 A
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location W. side of Tolstoi Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Going up follow the stream - there is a logging road on the left side (going upstream) to walk back on.

Aerial Survey Notes Brushy in spots

Anchorage Tolstoi Bay (see Coast Pilot)

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries Surveyed in 1940 (2,000 pink, 500 chum) - in 1941 (2,500 pink, 500 chum) - in 1943 (5,000 pink, 8,000 chum)

Escapement Available spawning area (ITZ) - 627 M2

Available spawning area (stream) - 1,411 M2

Species Composition 51% pinks and 49% chum in three years surveyed, but fluctuation in each years percentages.

Timing Late

Schooling areas No data

Shellfish Potential None- rocky

Sport Fisheries No data

Land Use at Present Floating log camp stretches clear across the bight this stream is in.

History of Land Use Logged - 5-10 years ago

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0



Name _____ Catalog No. 102-70-38
 Latitude N 55° 37' 35" WR No. _____
 Longitude W 132° 25' 15" K No. 183 A
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location NE side of Tolstoi Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Going up follow the stream - there is a logging road on the left side (going upstream) to walk back on.

Aerial Survey Notes Brushy in spots

Anchorage Tolstoi Bay (see Coast Pilot)

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries Surveyed in 1940 (2,000 pink, 500 chum) - in 1941 (2,500 pink, 500 chum) - in 1943 (5,000 pink, 8,000 chum)

Escapement Available spawning area (ITZ) - 627 M²

Available spawning area (stream) - 1,411 M²

Species Composition 51% pinks and 49% chum in three years surveyed, but fluctuation in each years percentages.

Timing Late

Schooling areas No data

Shellfish Potential None- rocky

Sport Fisheries No data

Land Use at Present Floating log camp stretches clear across the bight this stream is in.

History of Land Use Logged - 5-10 years ago

Rehabilitation Potential None

Soils stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

PEAK ESCAPEMENT RECORD

NAME: Tolstoi Bay, E. shore 1.8 miles from head

STREAM CATALOG NUMBER: 102-70-38

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 1, 1940	2,000	500		Excellent (G)
Oct. 11, 1941	2,500	500		Excellent (G)
Sept. 27, 1943	5,000	8,000		Fair. 1,000 fish off mouth (G)

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102-70-41
Head Tolstoi
6-19-74
Elton - Joyner

50% spawning in this 250 yds
with slash this drops to 30%.

50% spawning in this 150 yds.
This is optimum, with the
slash it drops to 35%.

17' wide 60% spawning in this 150 yds.
6" deep (cobble, gravel and pools)

one Dolly fry.

This is a logging slash
barrier.

Without the slash this area
has 75% spawning (cobble and
pools). 150 yds. long.

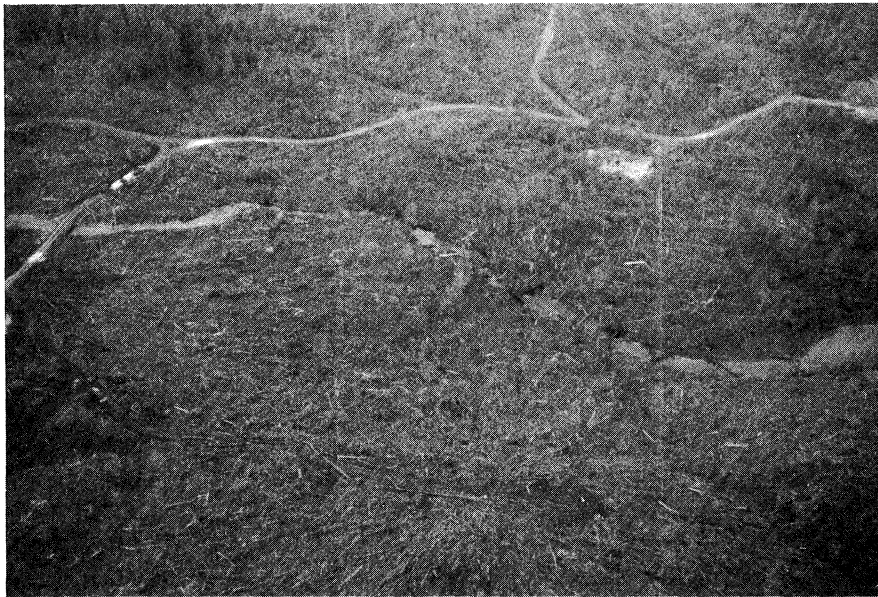
Station #1

20 coho fry observed in shallow
pool

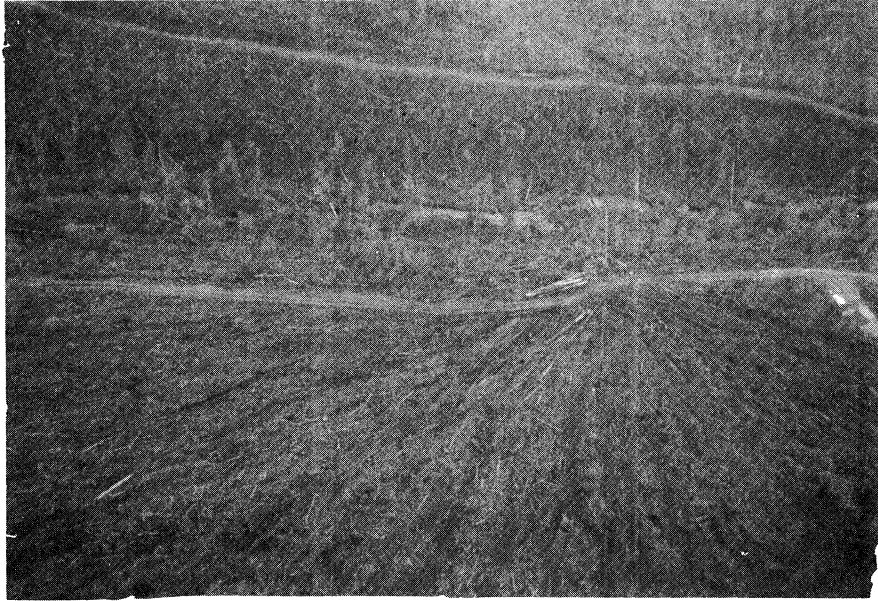
60% spawning in this 250 yds.
of I.T. (cobble, sand with
some algae)

350 yds. to bay at low tide -
very little spawning area.

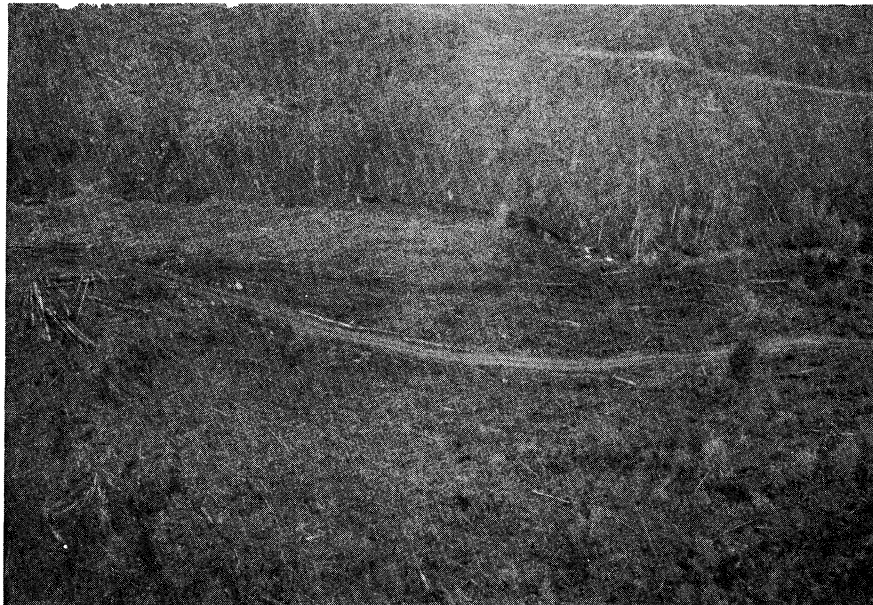
25' wide
4" deep













Name _____ Catalog No. 102-70-41
 Latitude N 55° 36' 34" WR No. _____
 Longitude W 132° 27' 04" K No. 183
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location Head of Tolstoi Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Lake, spring and runoff
 Trails & Survey Routes Walk in stream
 Aerial Survey Notes Stream wide open from logging.
 Anchorage Good anchorage in Tolstoi Bay. (see Coast Pilot)
 Tide Stage When Surveyed 1/2 flood
FISHERY RESOURCES
 Commercial Fisheries Peak counts in 1941 and 1943 by FWS - 1941, 12,000 pinks; 1943, 5,000 pinks and 10,000 chums.
 Escapement Available spawning area - 2,882 M²
 Species Composition Varies, but in surveys from 1941-1946 pinks predominate except in 1943.
 Timing Late
 Schooling areas No data
 Shellfish Potential Possible - mud and sand flats.
 Sport Fisheries No data
 Land Use at Present Logging
 History of Land Use None
 Rehabilitation Potential A great deal of slash in the creek and next to it from logging - this should be cleared out - get loggers to clear
 Soils Stable to point walked. preferably.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

Observers: Joyner, Eltor

Date: 6-19-74

Temperature: 58°

Weather: Overcast

Name: Head Tolstoi

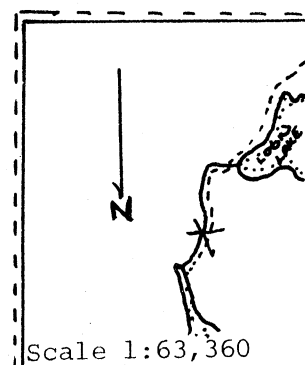
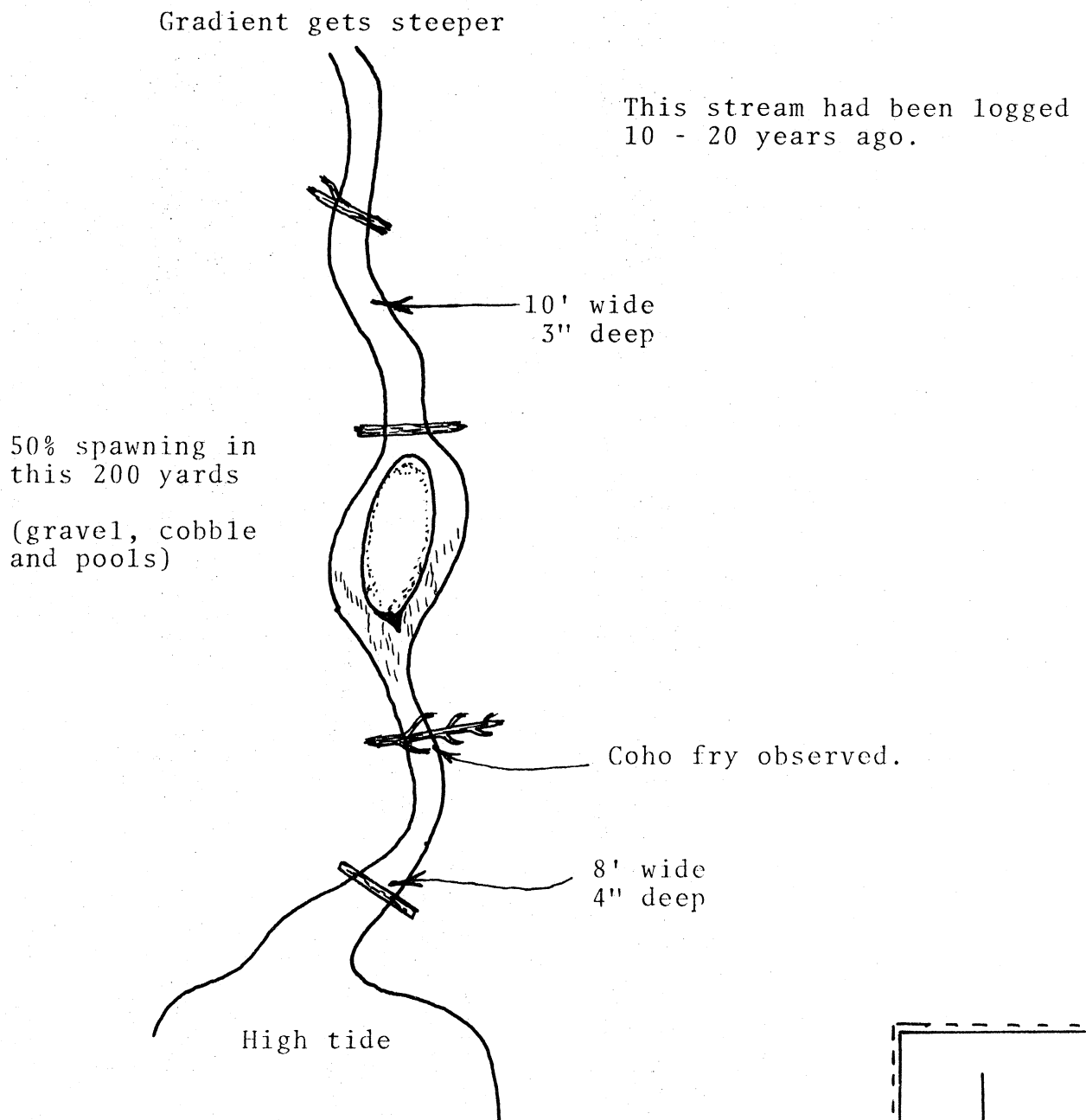
Number: 102-70-41

[illegible]

General Remarks (rehab., land use, barriers, log jams, etc.):

This stream has been totally filled in by slash.

102-70-51
Loon Creek
6-18-74
Joyner - Elton



Name Loon Creek Catalog No. 102-70-51
 Latitude N 55° 38' 14" WR No. _____
 Longitude W 132° 29' 02" K No. _____
 Geodetic Map No. Craig - C-2 Work Area Ketchikan
 Location Head S. Arm of Thorne Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Lake, spring and runoff

Trails & Survey Routes Walk in stream.

Aerial Survey Notes Water dark but probably from rain.

Anchorage Tie up at Thorne Bay logging camp or anchor in Tolstoi Bay

Tide Stage When Surveyed 3/4 flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 250 M²

this does not include I.T.Z. because of high tide.

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential Possible - long mud flats

Sport Fisheries No data

Land Use at Present None

History of Land Use Logged - 10-20 years ago

Renabilitation Potential None

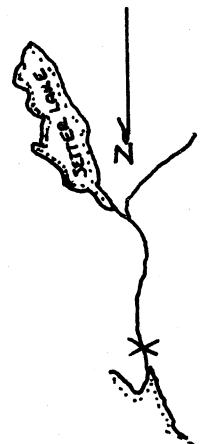
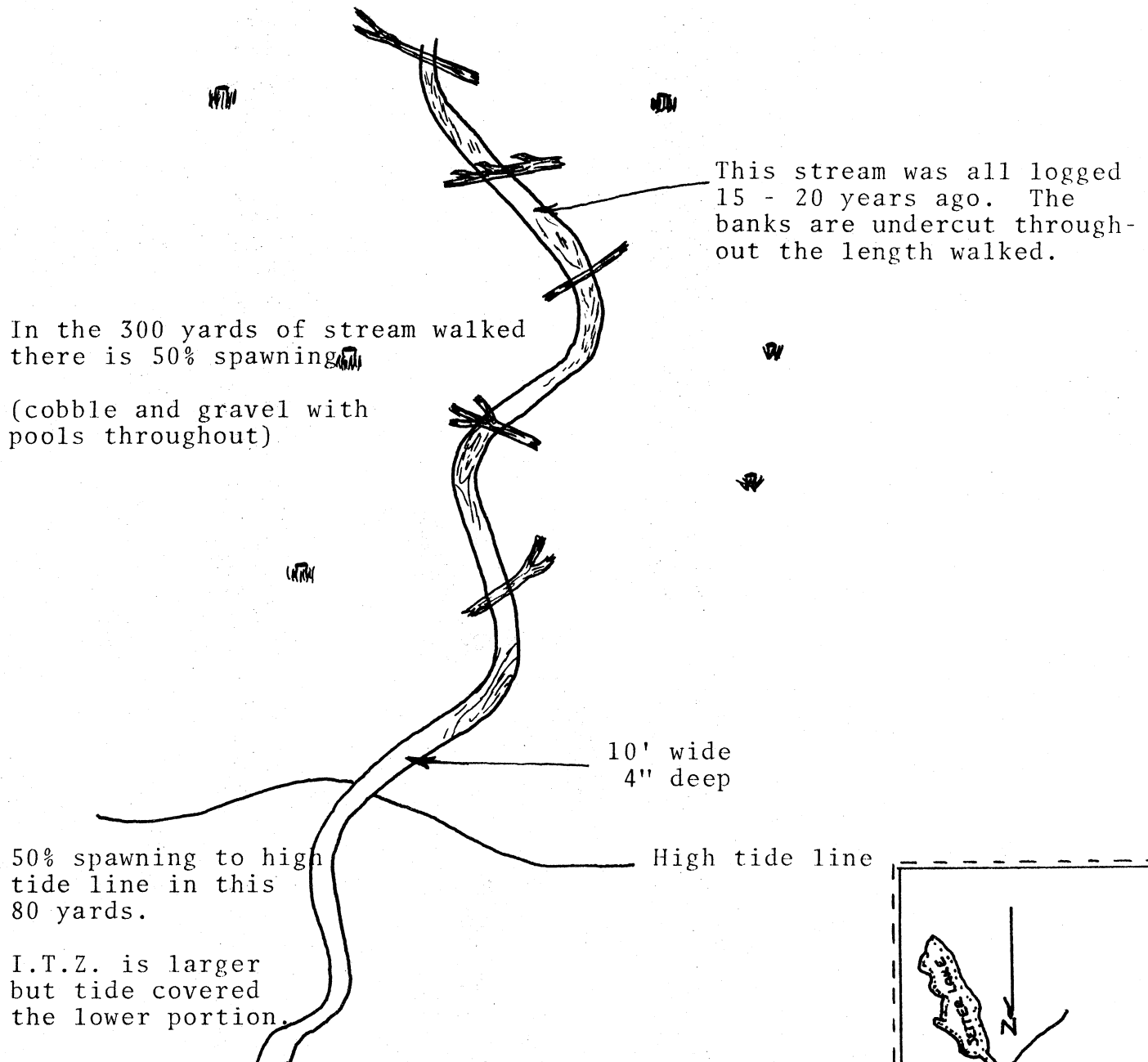
Soils Stable to point walked.

GAME RESOURCES

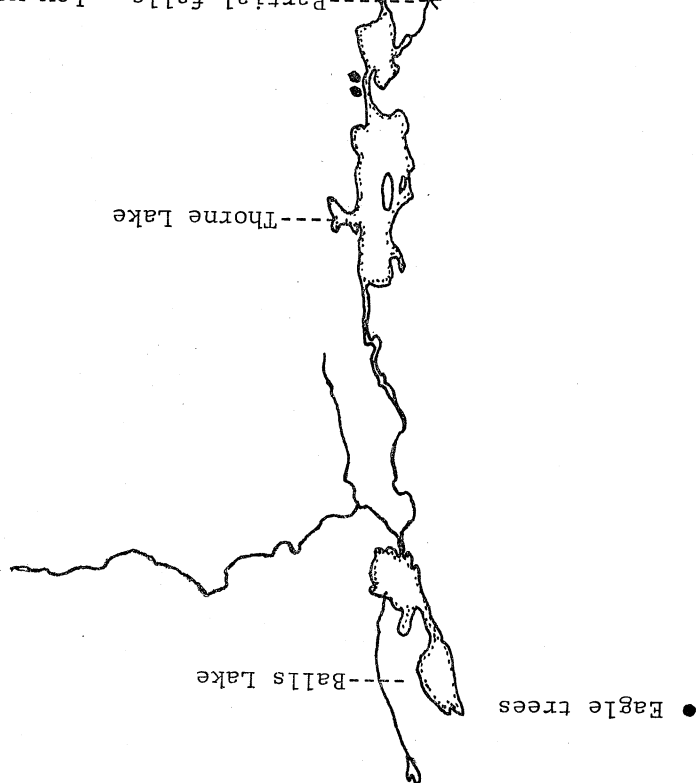
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-55
Setter Creek
6-19-74
Elton

The water was high after one day of rain



Thorne River
102-70-58
7-74 to 8-74
Novak



Shellfish Potential Possible - mud flats

Sport Fisheries No data

Land Use at Present None

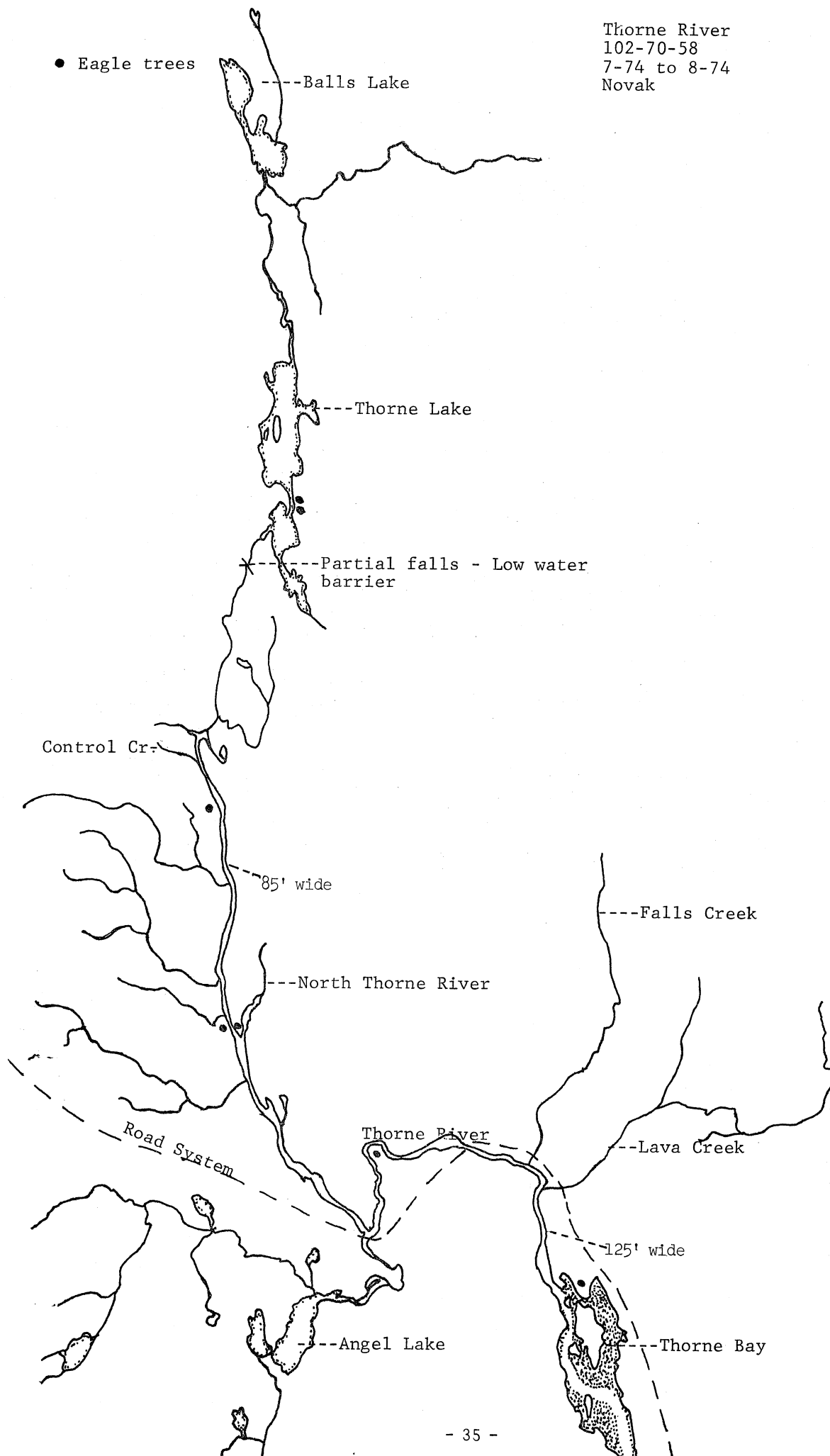
History of Land Use Logged 15-20 years ago

Rehabilitation Potential None

Soils Undercut banks along length

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0



Name Thorne River Catalog No. 102-70-58
 Latitude N 55° 41.9' WR No. 149
 Longitude W 132° 34.3' K No. 184
 Geodetic Map No. Craig D-3, C-3, C-2 Work Area Ketchikan, Thorne Bay
 Location Pr. of Wales - Thorne Bay Watershed Length 14 miles
 Drainage Area of Watershed 210 sq. miles (polar planimeter)
 Water Supply Type Lake system with many tributaries supply water to the system. Precipitation & snowfields.
 Trails & Survey Routes Skiff may be used at high tide to survey 3 miles of I.T.Z. Trails (bear) along both stream banks. Hard to survey on ground
 Aerial Survey Notes Muskeg colored waters make visibility poor during most times of the year. Low water & sunshine day only possibility.
 Anchorage Available about 2 miles from the head of the bay. Floats may be available at the logging camp.
 Tide Stage When Surveyed Ebb tide.

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, red. King salmon have been rumored to use this system (undocumented).

Escapement High history 98,000 - 1966. Average Esc. 1960-1974 - 23,000.

Available spawning area - 309,022 M²

Species Composition Unknown but pink most numerous followed by chum and coho.

Timing Late - September, October (pink - chum), July - sockeye.

Schooling areas ITZ schooling in area off deep water in bay. Upstream schooling in the many pools found throughout the system.

Shellfish Potential Non-productive as research has indicated from F.R.I. investigations.

Sport Fisheries Excellent cutthroat, Dolly Varden, steelhead, coho, sockeye, pink, chum fisheries present. Road access from Craig - Hollis.

Land Use at Present Logging along lower end of watershed. Road parallels system for several miles.

History of Land Use Trapping cabins were established along entire route, mineral exploration during early years with logging developments in 1950's.

Rehabilitation Potential None necessary at the present time. The upper falls below Thorne Lake may warrant further study.

Soils Stable in most areas but susceptible to erosion with land use infringements.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	numerous
	Number of droppings	numerous
Geese -----	Number seen on tide flats	10
	Number seen up creek	20
	Number of broods seen	1
Mallards ---	Number seen on tide flats	10
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	4
Bald Eagles--	Number seen along creek	7
	Number of nests seen and location	refer to map
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	3 miles
	Estimate depth out from beach	20' - 150'
	Eel grass present on what percent of flats	0

PEAK ESCAPEMENT RECORD

NAME: Thorne River

STREAM CATALOG NUMBER: 102-70-58

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 8, 1937				River high and discolored. Good escapement presumed from fish seen dead on banks.
Ct. 2, 1940				Good. Good showing live and dead fish (G)
Oct. 12, 1941				Good. Many dead fish. Water high and muddy (G)
Sept. 28, 1943				Fair. 15,000 off mouth, No estimate in stream (G)
Oct. 4, 1946				No estimate possible (G)
Oct. 9, 1947				Poor. Few fish. Water discolored (G)
Aug. 14, 1948			500 red	(G)
Aug. 21, 1948		200		(G)
Sept. 12, 1949	5,889	1,275		Survey terminated just above Thorne River Club camp site (G)
Oct. 2, 1953				Poor. Little showing, pink, few chum. Visibility poor. Resident reports good early red run, pink and chum run poor (G)
Aug. 24, 1954	3,500			>3,000 in mouth (A)
Sept. 17, 1954		4,000		Est. 10,000 above marker (A)
July 24, 1956			500 coho 10,000 red	400 coho at mouth
Sept. 9, 1956	>40,000			Est. 3-5 times more in pool (A)
July 1, 1957			5,000 red	
July 25, 1957			200 coho	
Sept. 16, 1957	2,000			(G)
Sept. 27, 1957		15,000		Some dead pink. No fish observed off mouth (A)
Aug. 6, 1959	500		200 coho, 500 red	None at mouth (A)
Sept. 16, 1960				None at mouth. Water dark (A)
Sept. 18, 1961	500	1,500	- 37 -	Forest Service (G)

PEAK ESCAPEMENT RECORD

NAME: Thorne River

STREAM CATALOG NUMBER: 102-70-58

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 24, 1962				Fish present for four miles (A)
Aug. 31, 1964				30-40,000 in stream, present length of stream (A)
Aug. 16, 1965	10,000 ⁺		Some coho	Good show of salmon at mouth. Stream low, fish in holes. 25 reds present on July 20, 1965 (F)
Aug. 23, 1966	93,000			5,000 fish intertidally. Vis. good (A)
Aug. 28, 1967	300		20 coho	Vis. poor. Stream dark, pinks largely spawning (H)
Aug. 14, 1968	500			18-28,000 fish intertidally and in mouth, 12 balls of fish. Vis. good. Fish in lower stream. (A)
Aug. 26, 1970	----14,000 ⁺ ----			Fair show of jumps at mouth Vis. fair to poor (A)
Aug. 31, 1971	16,000 ⁺			More fish present in deep holes, but no count possible. Vis. poor. (H)
Sept. 5, 1972	39,100			Vis. poor. Many dead. 3,000 (H)
Aug. 29, 1973		N.O.		Too dark to survey. Vis. poor (A)
Sept. 11, 1974		----19,300----		Many carcasses, spawning activity (A)





North Thorne River
102-70-58
Novak - Downey
1972 - 1974

--#19
Unstable soils.
Windfall, braided
areas.

---#18
35-40' wide, 8" deep
60% ASA

#17 ---

#15

#16

---#14
6' wide
6" deep

#13 ---

Coho fry collected
above falls.

#12 ---
Falls - 12' high, 3
tiers. 200 coho,
200 Dolly Varden,
2 sockeye.

50% ASA

West Fork

East Fork

Falls
3-4'

Partial block
at low water.

6 sockeye

#10

50 sockeye spawning

---#11
35' wide
40% ASA
Braided area to falls
below.
62 sockeye spawning
Beaver dams above
falls are numerous
to above station #11.

SOCKEYE SPAWNING AREA
FROM FORKS TO FALLS.

---#9
10' wide - good rearing

#7 ---
10% ASA

#6 ---
90' wide
10% ASA

Canoe
Portage

#5 ---

#4 ---
2 COHO
sampled in
lake.

#3 ---
15' wide
8-10" deep
muskeg color

75% riffle

3/4 mi. of
windfall, no
blocks.

#1 ---
Steelhead
Redds observed

Thorne River

59 cohos observed spawning from the falls to the uppermost station.

SOCKEYE SPAWNING AREA
FROM FORKS TO FALLS.

--- = Proposed road system

Name North Thorne River Catalog No. 102-70-58
 Latitude _____ WR No. 149
 Longitude _____ K No. -
 Geodetic Map No. Craig C-3 & D-3 Work Area Ketchikan - Thorne Bay
 Location Prince of Wales Island Watershed Length 18 miles, both forks
 Drainage Area of Watershed _____
 Water Supply Type Muskeg lakes, springs and runoff

Trails & Survey Routes Extremely hard to survey due to heavy undergrowth and deep water. A long system - survey with helicopter.

Aerial Survey Notes Difficult to survey due to dark water coloration. Best during low water conditions on clear days about noon.

Anchorage NONE - this is a tributary to Thorne River.

Tide Stage When Surveyed N/A

FISHERY RESOURCES

Commercial Fisheries Coho, pink, chum, sockeye. All species observed except King salmon.

Escapement Opt. esc. 106,000 Historic: sockeye 118 (1972), coho 259(1972), Refer to Thorne River section. Available spawning area - 53,000 M²

Species Composition Coho - 90%, Sockeye - 6%, chum 3%, pinks - 1%.

Timing Late, Aug-Sept. pinks, July-Aug reds, Sept-Oct chums.

Schooling areas School below falls especially on the west fork. Red salmon also school in Snakey Lakes.

Shellfish Potential None - freshwater mollusks found throughout the system.

Sport Fisheries Steelhead, cutthroat, Dolly Varden and excellent coho plus all salmon species. An excellent sport fishery present.

Land Use at Present Logging is occurring on the east side of the watershed. Roading is being completed as needed.

History of Land Use Limited logging on lower end of watershed area.

Rehabilitation Potential None necessary as coho and Dolly Varden seen above all the falls.

Soils Unstable in the upper areas of both forks. Land slide tracks and V-notch areas numerous.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or <u>fresh</u>) on banks, estimate many at falls	
	Number of droppings	<u>numerous</u>
Geese -----	Number seen on tide flats	<u>-</u>
	Number seen up creek	Geese have been seen on Snaky Lakes. <u>-</u>
	Number of broods seen	<u>2</u>
Mallards ---	Number seen on tide flats	<u>-</u>
	Number seen up creek	<u>-</u>
	Number of broods seen	<u>-</u>
Mergansers -	Number of broods seen	<u>-</u>
Bald Eagles-	Number seen along creek	<u>3</u>
	Number of nests seen and location	Two at mouth of creek. <u>2</u>
Seals -----	Number seen at mouth of stream	<u>-</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>-</u>

Date: 7-3-72 and 7-15-74
Temperature: 55° 62°
Weather: Overcast

Name: North Thorne River
Number: 102-70-58

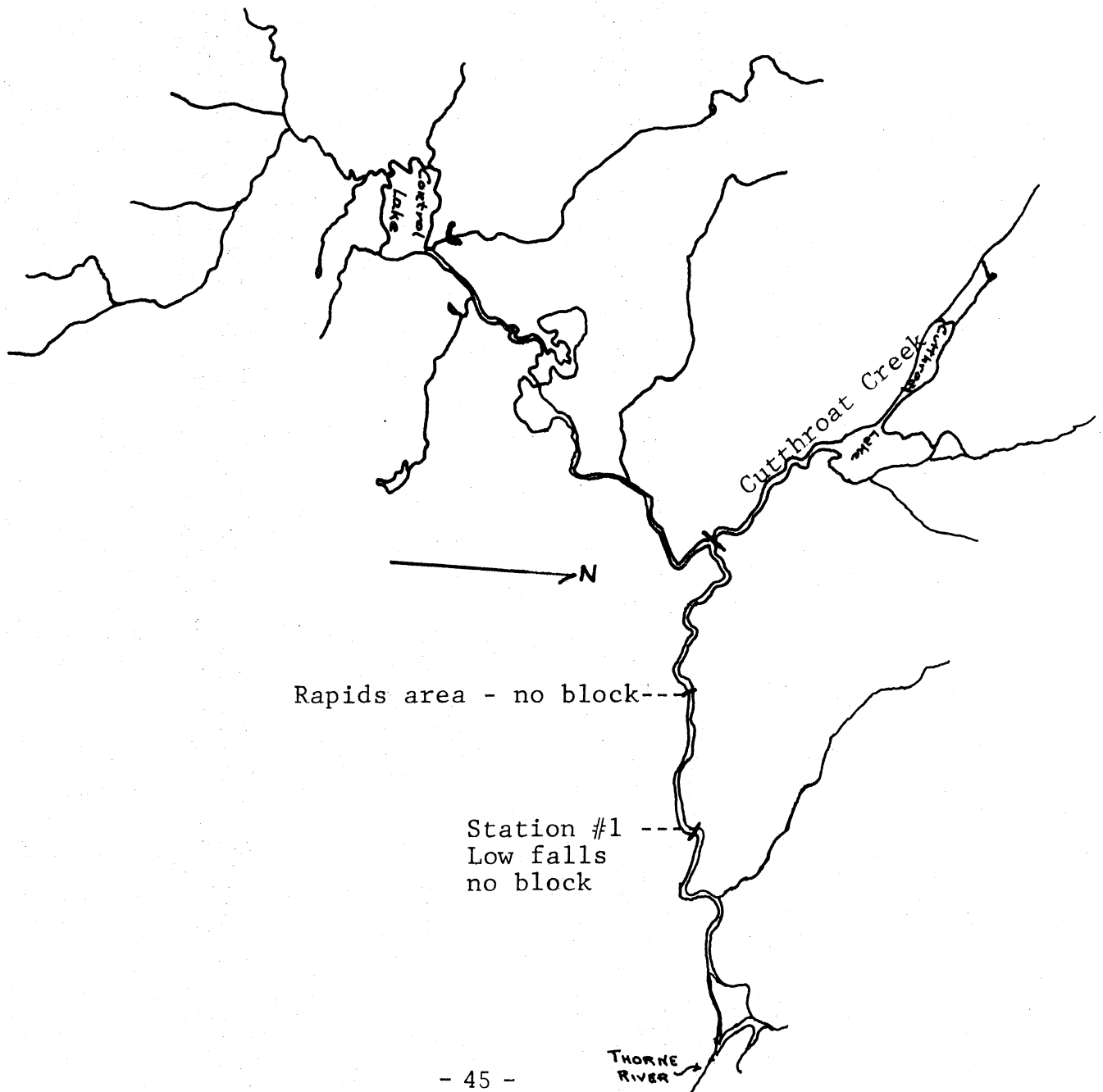
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2/1	2/2	3/2	3/1	1/1	1/1	2/1	2/2	2/2	2/1	2/1	1/1	2/1	3/3	2/1	2/1
15'W 9'D	5'W 4'D	15'W 9'D	50'W 2.5'D	75'W 5'D	80'W 5'D	40'W 2'D	10'W 6'D	10'W 6'D	45'W 2'D	35'W 2'D	75'W 10'D	45'W 12'D	6'W 6'D	5'W 4'D	35'W 10'D
3	1	3	3	1	1	1	1	1	1	1	1	1	3	3	2
4	3/4	4	4	3	4/3	4/3	3	3	3/4	3/4	4	4/3	4	4/3	4/3
3	3	3	3	3	3	2	2	3	2	2	1	1	1	1	1
2	1	2	2	1	1	2	1	1	2	1	2	2	2	2	2
54	54	54	55	57	57	57									
1-7	2-1	2-1	1-5	1-33	5-1	-	1-1	1-1	9-118	1-11	1-200	1-59	-	-	-
5-12			5-2	4-1			4-1			2-55	2-200				
										9-2					
1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	2
2	2	3	2	2	3	3	3	3	3	3	3	3	3	3	3
2	1	2	2	2	2	2	2	2	2	2	2/1	2	2	2	2

Station No.
Pool Size/Type
Riffle Type
Width-Depth
Pool Riffle
Frequency
Bottom Type
(Riffle)
Color/Turbidity
Velocity
Temperature
Fry Abundance
pH
Flow
Benthos
Sample No.
Higher Plant
Class
Aquatic Veg.
Density
Ident.
(1) Mosses
(2) Algae

General Remarks (rehab., land use, barriers, log jams, etc.):

Station: 4. Falls - 3 to 4'. No rehab. needed.
11. Windfall heavy to the falls. Potential silt problem if logged. 10. Falls - 4'. Low flow barrier
STATION: 12. Falls - 12' - possible ladder installation.

Controll Creek and Associated
Tributaries
102-70-58
7-1-74
Novak - Downey



Cutthroat Creek
102-70-58
6-26-74
Novak

An excellent coho rearing stream
with potential for heavy sockeye
spawning and rearing in the lake.

Recreational potential is excellent
with high aesthetic values.

1/2 mile above Lake
all excellent for
fisheries.

--2 coho fry seen

Pool - 3-4' deep

-Trap #4

--Seined 16 coho fry
from pool

--Trap #3

SPRUCE

SPRUCE

--Trap #2

Pools - 3-4' deep
less than width of
stream.

Excellent riffle areas.
8-10" deep
40' wide
80% ASA

--Trap #1

-Excellent coho
rearing tributary.

--Coho fry sighted

Sockeye salmon re-
mains found here X
from bear.

--Cutthroat
Dolly Varden
sample here.

Valley walls close to Lake.

C U T T H R O A T L A K E

Name Cutthroat Creek - Control System Catalog No. 102-70-58
Latitude 55° 41' 49" WR No. 149
Longitude 132° 35' 27" K No. 184
Geodetic Map No. Craig C-3 & D-3 Work Area Ketchikan - Thorne Bay
Location Prince of Wales Island Watershed Length 3 miles
Drainage Area of Watershed 12 miles square
Water Supply Type Lake system. Springs, precipitation.

Trails & Survey Routes An easy creek to foot survey. Land fixed wing on Cutthroat Lake and taxi to creek mouth.

Aerial Survey Notes Heavy canopy making aerial survey impossible.

Anchorage N/A

Tide Stage When Surveyed N/A

FISHERY RESOURCES

Commercial Fisheries Sockeye and coho - important coho rearing area on stream with possible sockeye rearing in lake.

Escapement Unknown at this writing

Available spawning area - 47,579 M²

Species Composition Unknown Available spawning area - 14,715 M²

Timing July-August-Sockeye Coho - late (September-October)

Schooling areas Unknown

Shellfish Potential None

Sport Fisheries Dolly Varden, cutthroat, coho and possibly steelhead

Land Use at Present None - but is being planned as part of the Honker Divide planning unit associated with the U.S. Forest Service.

History of Land Use None

Rehabilitation Potential Unnecessary as the creek is free of windfall and has stable soils along the banks.

Soils Stable adjacent to the stream and lake but potential problem could occur with roading and logging on slopes of this valley.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	4
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek (on lake)	17
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

Temperature: 55

Weather: Cloudy - calm

(1) Mosses
(2) Algae

This station taken above the lower falls. Sockeye, cutthroat, Dolly Varden were observed at the low falls. The falls is not a barrier and the entire stream is open to upstream fish migrations. No rehab. necessary.

102-70-70
Deer Creek
6-19-74
Joyner - Elton

Steeper gradient

15% spawning
in this 150 yds.
(bedrock and
rubble)

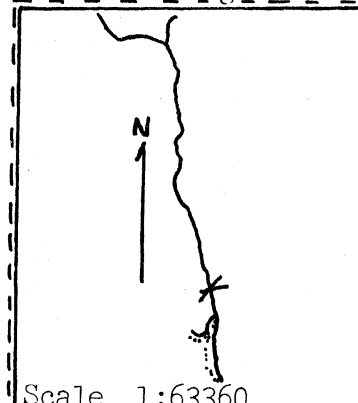
12' wide
3" deep

Thorne Bay camp is immediately
to the left of stream mouth.

Algae covered rubble
in I.T.Z. with 20%
spawning in 150
yards.

15' w.
3" d.

Forest Service buildings. _ _ _



Name Deer Creek Catalog No. 102-70-70
 Latitude N 55° 41' 04" WR No. _____
 Longitude W 132° 31' 02" K No. _____
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location Thorne Bay Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Dark rock on bottom

Anchorage Tie up at logging camp adjacent to stream (See Coast Pilot for entrance to Thorne Bay)
 Tide Stage When Surveyed 1/4 flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area (ITZ) - 125 M²
(stream) - 75 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present Logging camp

History of Land Use Logging

Rehabilitation Potential None

Soils Stable to point walked

GAME RESOURCES

• Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

102-70-74
Snug Harbor
6-20-74
Joyner - Elton

Potential drops and gets steeper.

75% spawning in this
100 yards. (cobble &
gravel with traces of
bedrock)

50% spawning in this 200
yards. (cobble and gravel
with traces of bedrock)

10' wide
3" deep

Deer sign throughout.

Quite a bit of windfall in stream but no blocks. Spruce and hemlock on banks.

Herring spawn on this beach grass.

15% spawning
in this
120 yards
(gravel & rubble)

10' wide
3" deep



Scale 1.63360

Catalog No. 102-70-74
 Latitude N 55° 42' 42" WR No. _____
 Longitude W 132° 29' 02" K No. _____
 Geodetic Map No. Craig C-2 Work Area Ketchikan
 Location Head of Snug Harbor Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible - overstory

Anchorage The best anchorage in the area is in Tolstoi Bay (see Coast Pilot)

Tide Stage When Surveyed 1/4 flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area (ITZ) - 50 M²
 (stream) - 488 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential Possible - mud flats

Sport Fisheries No data

Land Use at Present None

History of Land Use None

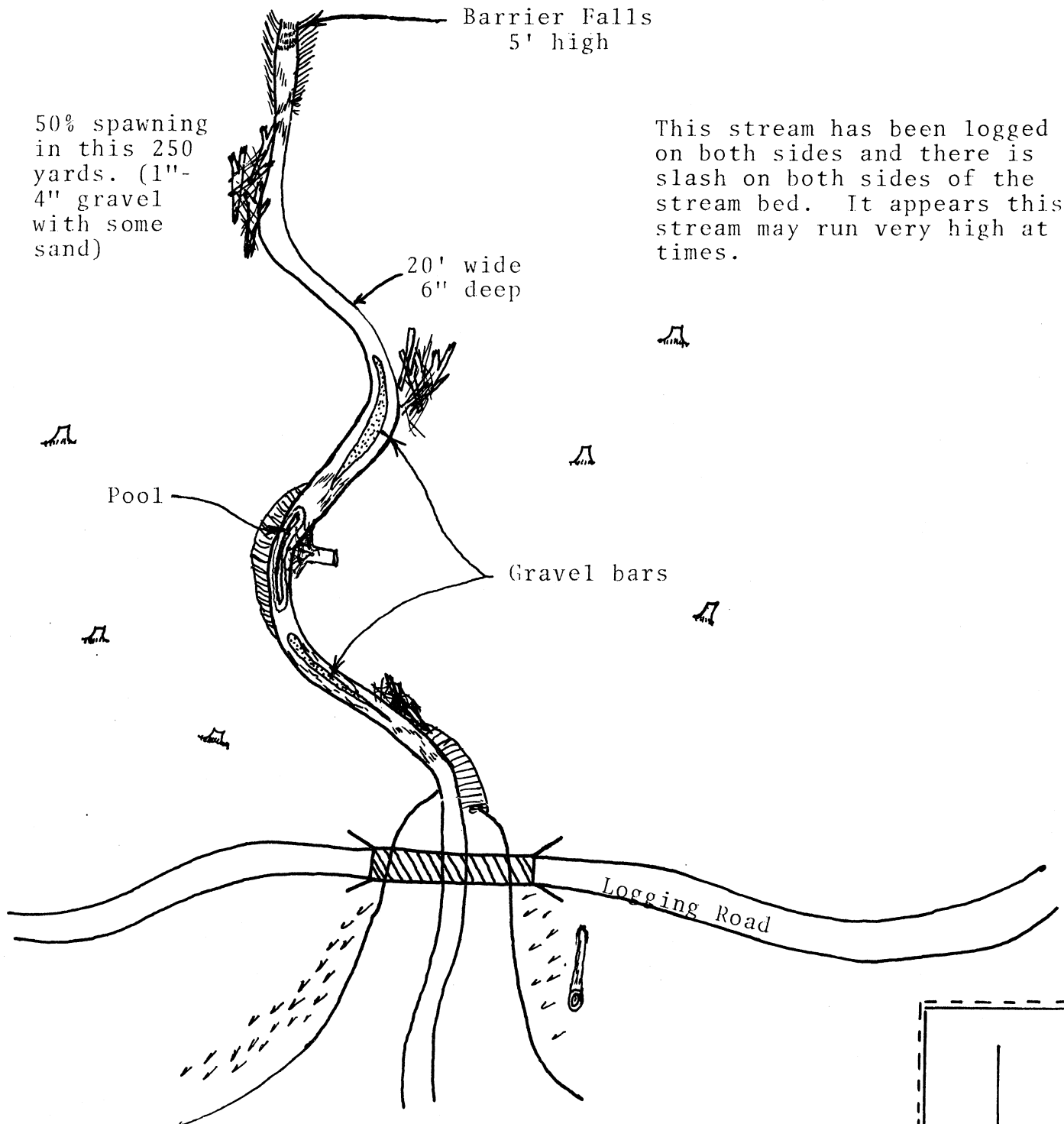
Rehabilitation Potential None

Soils stable to point walked

GAME RESOURCES

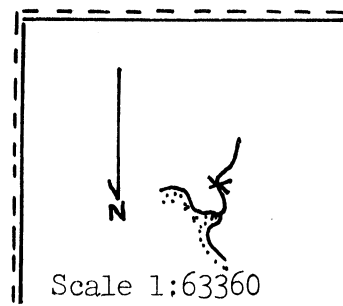
• Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-70-78
6-18-74
Joyner



50% spawning
in this 250
yards. (1"-
4" gravel
with some
sand)

This stream has been logged
on both sides and there is
slash on both sides of the
stream bed. It appears this
stream may run very high at
times.



Name _____ Catalog No. 102-70-78
Latitude N 55° 45' 16" WR No. _____
Longitude W 132° 29' 41" K No. _____
Geodetic Map No. Craig D-2 Work Area Ketchikan
Location 2.6 mi. So. of Narrow Pt. Watershed Length _____
Drainage Area of Watershed _____
Water Supply Type Spring and runoff

Trails & Survey Routes Walk in Stream.

Aerial Survey Notes -

Anchorage Anchor in Tolstoi Bay is closest

Tide Stage When Surveyed Flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 348 M² I.T. not
included because of tide.

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use Logged recently

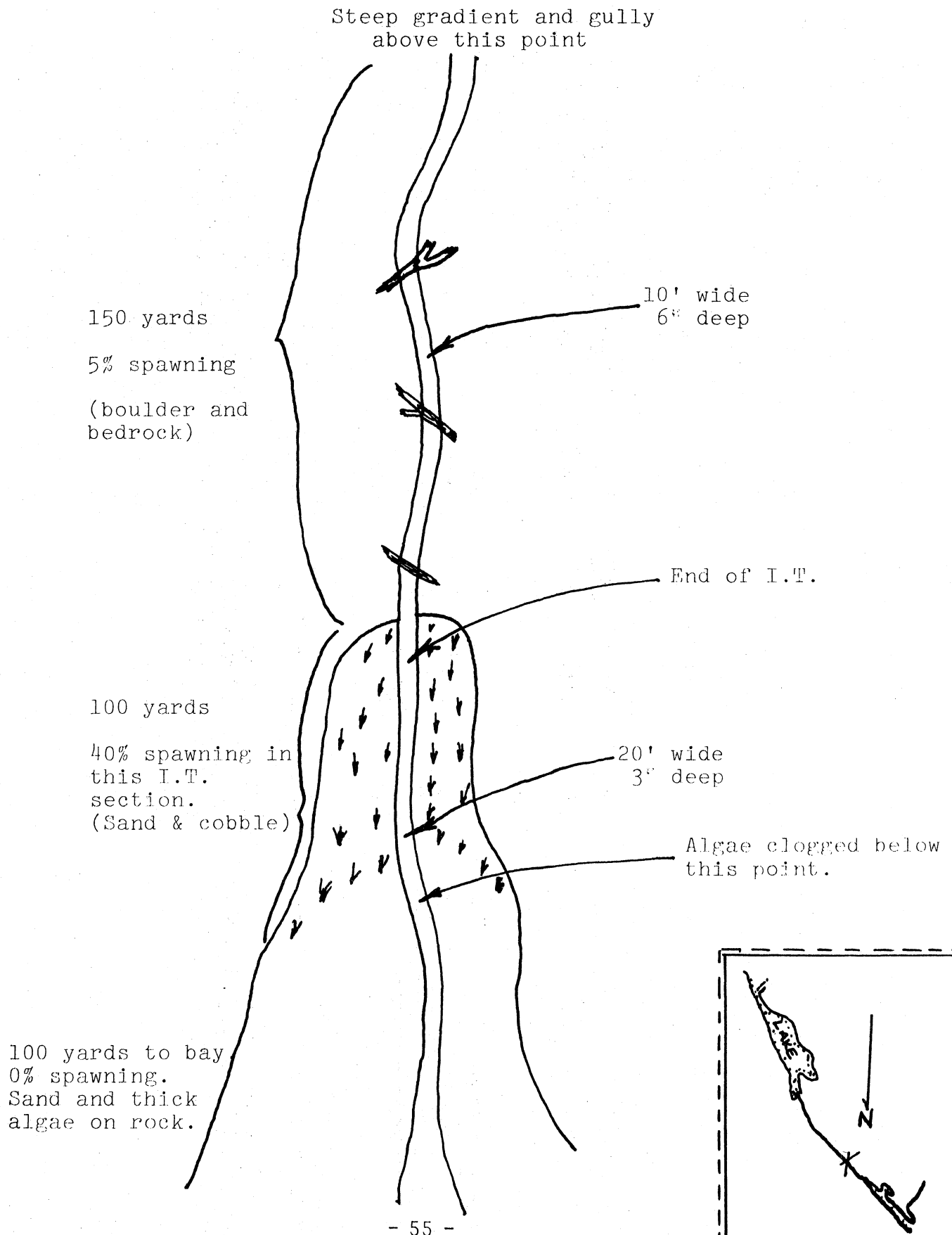
Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

Meyer's Stream
102-80-05
Elton and Joyner
6-18-74



Name Meyer's Stream Catalog No. 102-80-05
 Latitude N 55° 44' 11" WR No. _____
 Longitude W 132° 14' 32" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location Head of Meyers Chuck Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Muskeg, runoff and springs

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible due to overstory

Anchorage Tie to float in Meyers Chuck

Tide Stage When Surveyed 1/2 flood

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area (stream) - 40 M²
 (ITZ) - 444 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential sand and silt in front of mouth - has potential

Sport Fisheries No data

Land Use at Present None in stream vicinity but homes from Meyers Chuck
 just around the corner

History of Land Use None

Rehabilitation Potential None

Soils stable to point walked

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	
	Number of nests seen and location	
Seals -----	Number seen at mouth of stream	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	0

102-8-13
Joyner
6-1-74

30% spawning in stream (300 yards)
0% spawning in I.T. zone.

Stream mixed gravel and bedrock
with some pools.

Banks get steep at upper end
with more bedrock.

Man made barrier

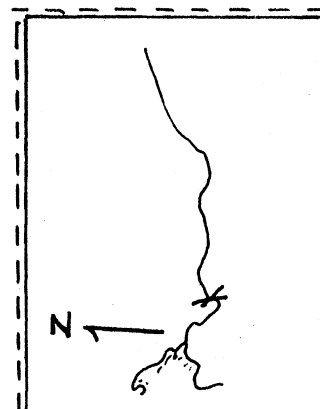
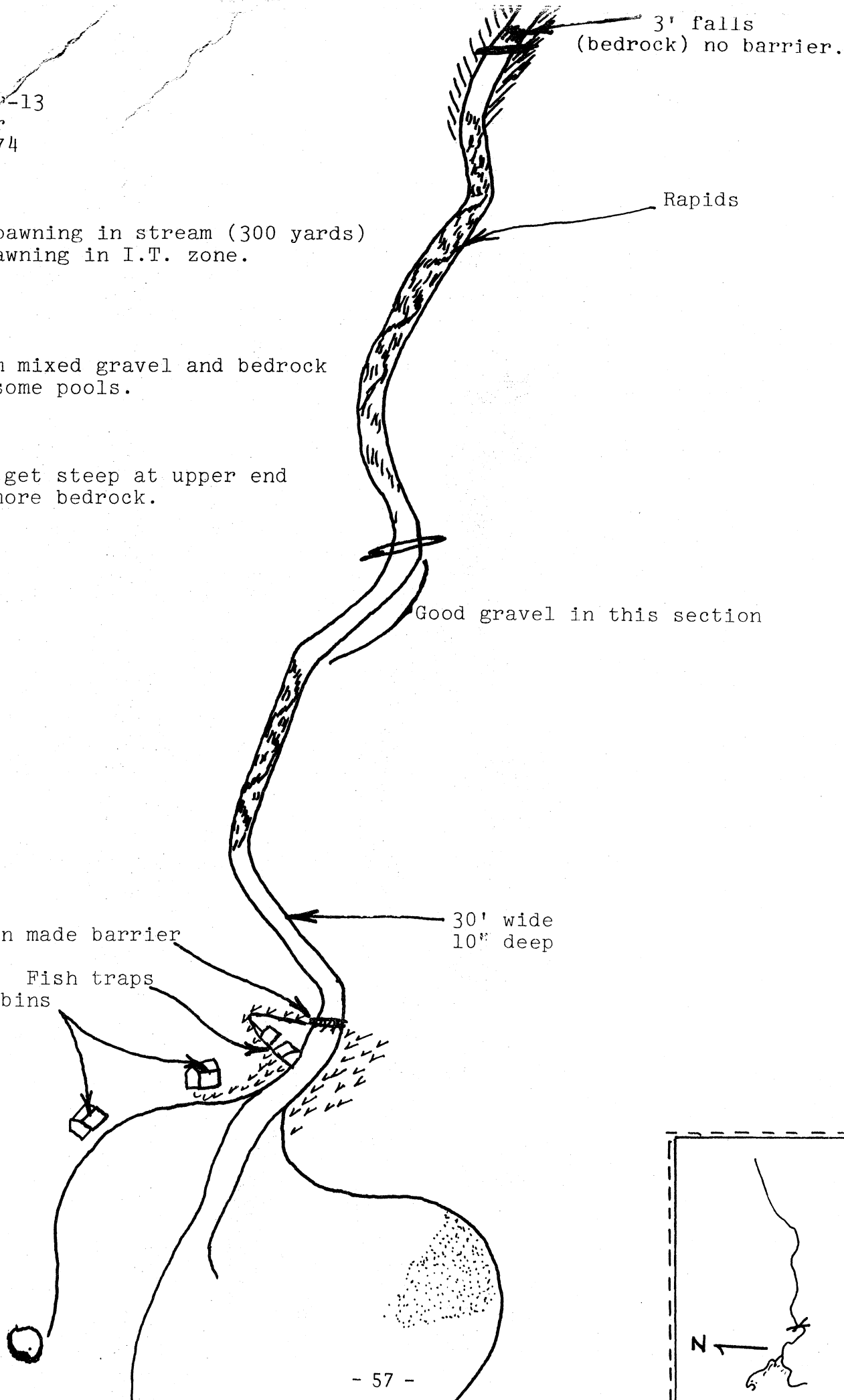
Fish traps
Cabins

Good gravel in this section

30' wide
10" deep

3' falls
(bedrock) no barrier.

Rapids



Name _____ Catalog No. 102-80-13
 Latitude N 55° 39' 05" WR No. _____
 Longitude W 132° 11' 52" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location West side Cleveland Penn. Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream.

Aerial Survey Notes _____

Anchorage Closest good anchorage is Meyers Chuck

Tide Stage When Surveyed 3/4 ebbing

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 752 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use Man-made fish traps in area.

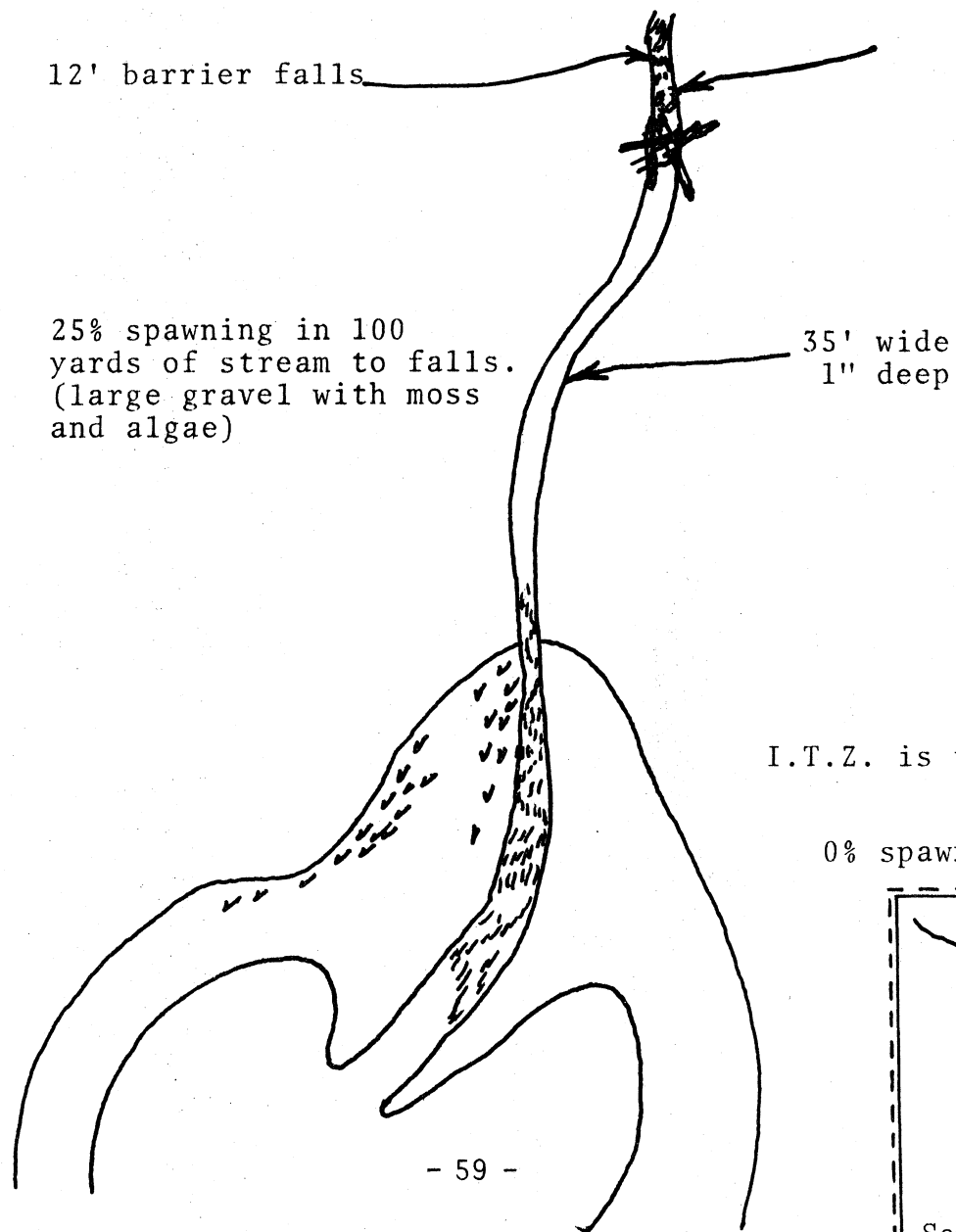
Rehabilitation Potential none

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers --	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-80-17
6-17-74
Joyner



Name _____ Catalog No. 102-80-17
 Latitude N 55° 37' 07" WR No. _____
 Longitude W 132° 11' 31" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location 1 4/10 mi. N.N.E. Ship Is. Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Lake, spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible.

Anchorage Meyers Chuck

Tide Stage When Surveyed Low

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 60 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

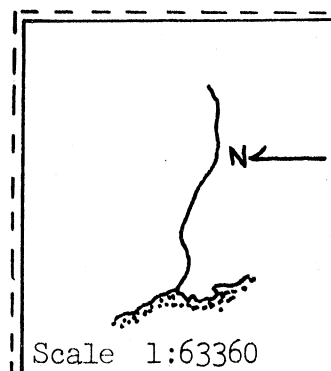
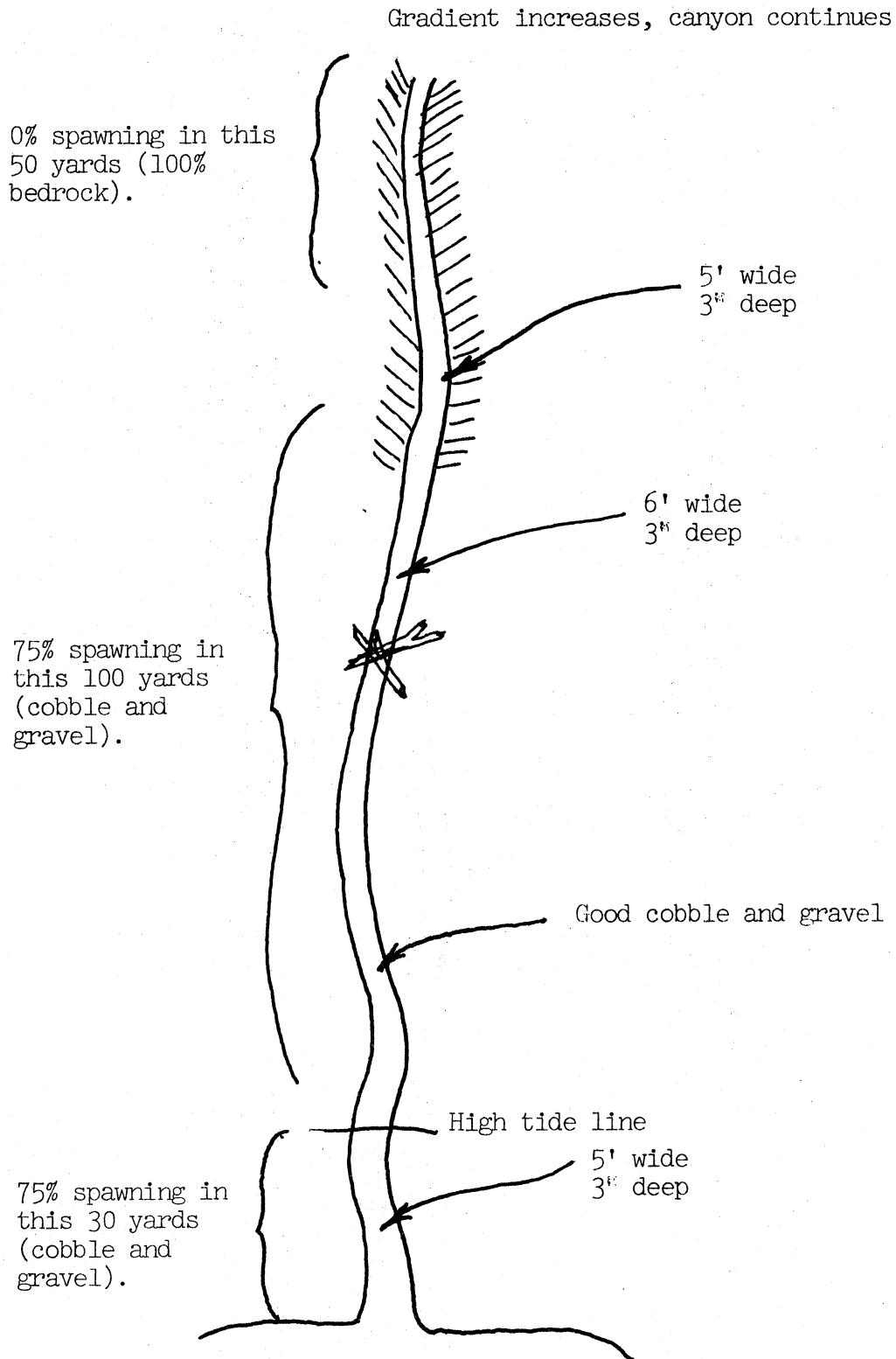
Rehabilitation Potential None

Soils Stable to falls.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-80-19
Elton
6-17-74



Name _____ Catalog No. 102-80-19
Latitude N 55° 35' 51" WR No. _____
Longitude W 132° 11' 16" K No. _____
Geodetic Map No. Craig C-1 Work Area Ketchikan
Location directly East of Ship Island Watershed Length _____
Drainage Area of Watershed _____
Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream.

Aerial Survey Notes Not feasible, heavy overstory

Anchorage Closest good anchorage in Meyers Chuck

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data.

Escapement Available spawning area - 157 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

Name _____ Catalog No. 102-80-21
 Latitude N 55° 33' 25" WR No. _____
 Longitude W 132° 07' 47" K No. _____
 Geodetic Map No. _____ Work Area Ketchikan
 Location 7/10 m. north of Niblack Pt. Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Lake

Trails & Survey Routes Walk on left side of creek.

Aerial Survey Notes Some deep holes at lower end of I.T. Some deep spots in stream.
Easiest to survey by foot.

Anchorage Closest safe anchorage in Meyers Chuck.

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 83 M²

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data (rainbows in lake)

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

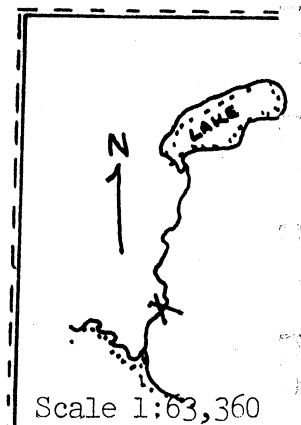
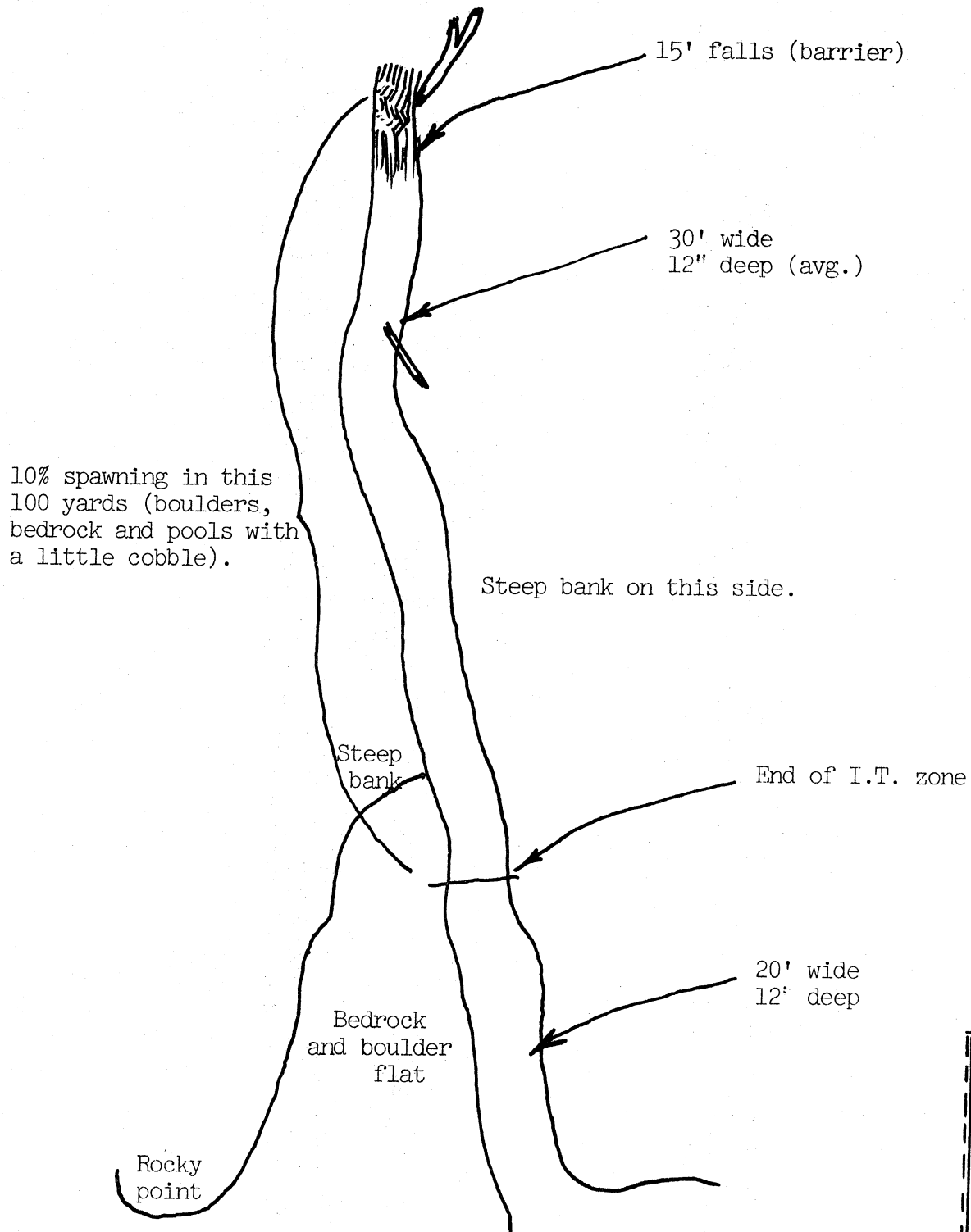
Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>2</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

102-80-21
Elton
6-17-74

A very swift stream



Name _____ Catalog No. 102-80-24
 Latitude N 55° 32' 20" WR No. _____
 Longitude W 132° 02' 30" K No. _____
 Geodetic Map No. Craig C-1 Work Area Ketchikan
 Location midway between Niblack & Caaman Watershed Watershed Length _____
 Drainage Area of Watershed _____
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in creek.

Aerial Survey Notes Not feasible, heavy overstory.

Anchorage No safe anchorage in immediate vicinity.

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 6 M² (ITZ)
- 13 M² (stream)

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

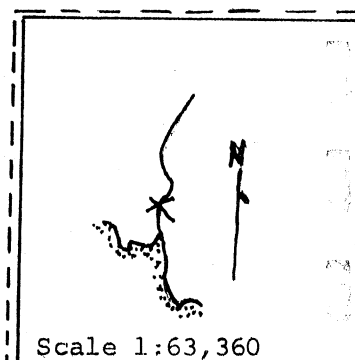
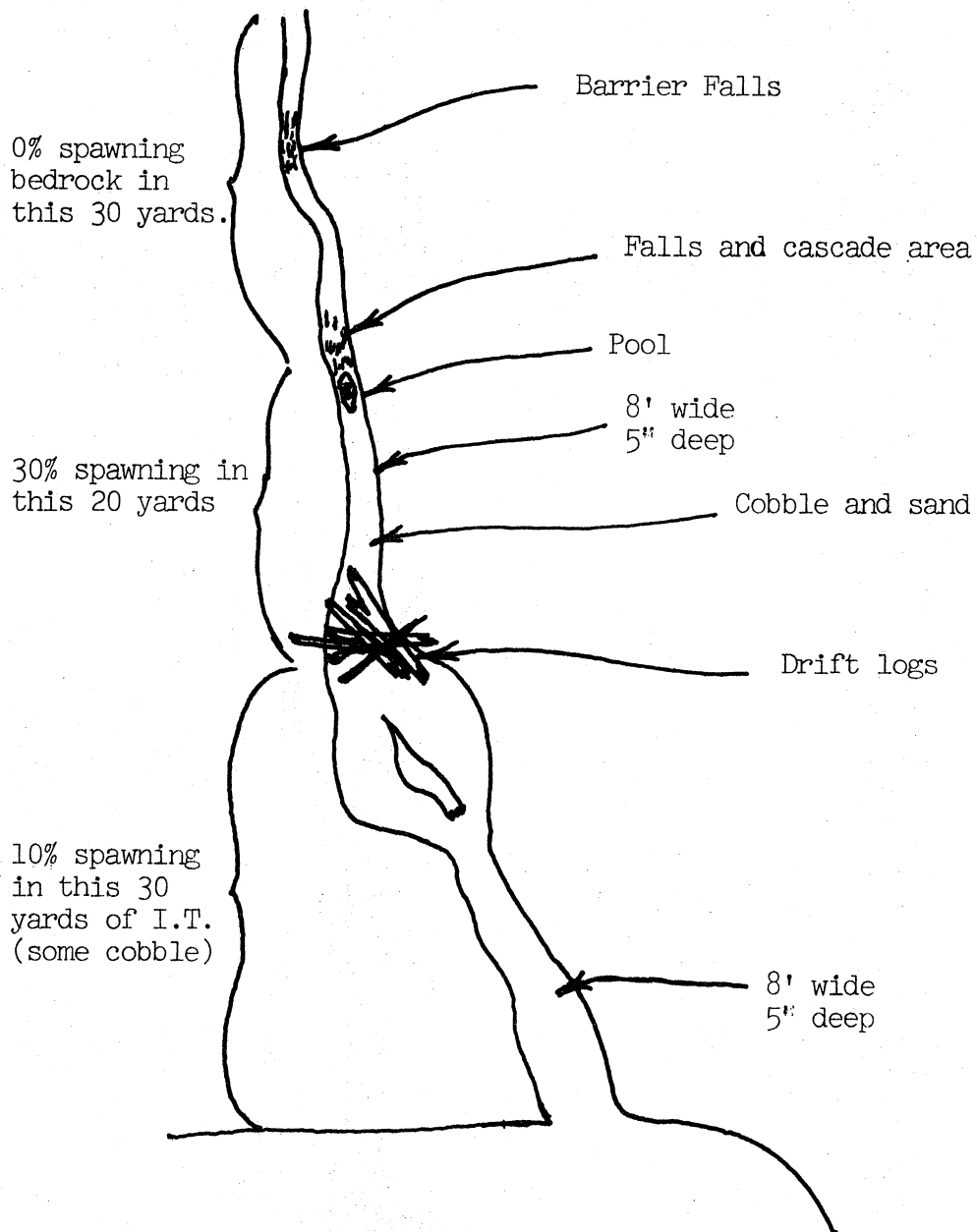
Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>0</u>
	Estimate depth out from beach	<u>0</u>
	Eel grass present on what percent of flats	<u>0</u>

102-80-24
Elton
6-17-74



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